

Gen II Troubleshooting Guide

Symptom

Scale drops off/doesn't show up

Digistar VT good, not on Montag homepage

Scales showing erratic readings

Calculated weight and actual weight off

Montag screen drops off/doesn't show up

Controller not working

Meter drive icon is red on home screen

Red X over hopper

Slide gate will not open

Problem

Digistar VT does not show up on homepage

Scales not set up

Possible bad Scale Link ISO node, j-box, or load cell

Set-up incorrect

Calibration factor off

Montag VT does not show up on home page

Erratic and inconsistent results from controller

Missing calibration information

Hopper manually shut off

Slide gate will not function

Solution

Check Digistar ISO connection, the 6 pin Deutsch connector (18" whip out the bottom of the SL2140 ISO control box) for corrosion/damage/bad connection.
Remove cover (4 screws) on the SL2140 ISO. On the right side there should be 4 blue LED on, and the 3 status LED on the left side should be off.
Check system voltage, on Montag screen, under diagnostic button, under ECU, voltage should be 12.2V or greater.

Check ISO Connector at tractor for corrosion/connection.
Restart tractor, let screen power up for 20 sec before starting tractor.
Verify all ISO connections are correct. Verify correct ISO terminations are in place.
If using a monitor that requires a USB key for data, try a different USB key, or try removing it.

Verify scale system setting is set to "Yes" on Montag VT.

Verify correct Digistar Cal # for both tanks are setup 115030 and cal 5333.
Use GT 400 interactive troubleshooting guide and watch trouble shooting video under controller info tab on Montag website for troubleshooting diagnostics.

In hopper screen equalize weights and recheck.
Check cal factor correct, check density of the product with Density scale.
Check # of rows and total implement width.
Configure a new product and retry.
Example set-up 200lb/ac, 5 mph, 65lb/ft³, 12 row, 30' total width, Cal factor .03, the auger speed should be 31 ± 1 RPM auger speed
Do calibration test- either catch or no-catch test.
Verify no sheared couplers.
Verify hydraulic motor drive shaft couplers are properly connected.

Check ISO Connector at tractor for corrosion/connection.
Restart tractor, let screen power up for 20 sec before starting tractor.
Verify all ISO connections are correct. Verify correct ISO terminations are in place.
If using a monitor that requires a USB key for data, try a different USB key, or try removing it.
Make VT1 post monitor and VT2 Armrest (Deere only)
Check Digistar ISO connection, the 6 pin Deutsch connector (18" whip out the bottom of the SL2140 ISO control box) for corrosion/damage/bad connection.

Delete object pool on monitor.
Check system voltage, on Montag screen, under diagnostic button, under ECU, voltage should be 12.2V or greater.

Make sure that all calibration info is correctly entered for meter and that meter icon is green.

To turn back on: Gear/hopper settings/ hopper 1 or hopper 2 power buttons

Make sure hydraulics are engaged.
If in road mode, push road mode button to get to application mode
Check slide gates from diagnostics screen.

		Verify solenoid and position sensor harness connections are good and harness is in good condition.
Auger turning	Master switch off/not applying	Verify red knobs on hydraulic block valves are fully closed (CW-finger tight)
No Fertilizer being delivered -All rows	Fan not turning	Verify all tractor hydraulic couplers are fully engaged With tractor off, see if fan rotates by hand. If fan is not binding on housing, and does not rotate by hand, replace fan motor.
	Fan air gauge pressure less than 12 inch H2O	Fan rotation must be clockwise (CW) when viewed from the screen side of fan. If rotation is not CW, see Hydraulic Schematics in Montag manual and plumb as shown for your machine. Set gap between fan and shroud to 1/4 inch (6MM). Check for any air leaks in plenum tray or air chambers or anywhere in system.
	Augers turn wrong direction	Augers must turn CCW. Check hydraulic schematic and verify each hydraulic motor is in correct position. Check all augers and clean out system. Close slide gate and run meters in diagnostics mode. Check all augers for rotation and replace any sheared couplers. Clean out hoses and make sure air is coming out each hose at toolbar before starting to apply fertilizer.
	Auger(s) not turning	Confirm fan is running. Augers will only turn while fan is running. Confirm augers are not obstructed. Safely remove any obstructions by following instructions in section 9.9 in Montag manual. Check controller set-up is complete with correct product info (density, cal factor, rate, ground speed is registering. If using prescriptions, verify mapping is in correct format and entered correctly. Verify prescription icon is by rate on home screen, and a non-zero target rate is on display side. Master switch is on/section boxes are blue, and tractor is moving, but augers not turning, verify correct speed input selected.
	Master switch/ work switch not set-up correctly	Follow instructions in manual for correct set-up. Work switch icon on status line will toggle on/off when toolbar is lowered/raised. When master is toggled on the off master icon on the meter will switch to augers and section boxes will become lit.
	Problem with encoder or PWM valve	Shut slide gate and run meters in diagnostic screen. If still does not run, set meters to 100% and check for 12 VDC at PWM valve. Look for harness damage. If augers turn but no RPM, check encoder harness for given tank. Test for 12 VDC on pins 1 & 3 of encoder harness. Remove plastic cap over encoder motor shaft to verify hydraulic flow at encoder motor. If 12VDC is present and motor is turning replace sensor in motor. Follow replacement instructions. (Entire motor must be returned w/ speed sensor unadjusted if still under warranty)
	No speed detected	Confirm correct speed input is selected in task controller
No Fertilizer in 1 or more rows	Couplers sheared	Check all augers and clean out system. Close slide gate and run meters in diagnostics mode. Check all augers for rotation and replace any sheared couplers. Clean out hoses and make sure air coming out each hose at toolbar before starting to apply fertilizer.
	Product Bridging	With fan still running look at auger cartridge for bridging or obstruction which does not allow product to flow evenly. Shut off fan and then back on to see if issue persists. Air pressure may be too high Open/close slide gate
Not holding rate	Alarm "Metering drive cannot maintain target rate"	Check for correct product info (density, cal factor, rate). Augers RPM should be between 5- 105 range. Verify correct ground speed. Adjust meter amplification factor. Add a new product with correct numbers. Clear object pool by following monitor manufacturers instructions. Power cycle controller
One tank not holding rate	Set-up incorrect	Check for correct product info (density, cal factor, rate).

	Bad speed sensor cable	Shut slide gate and run meters in diagnostic, verify shaft RPM's for both tanks. Check all harnesses and harness connections to motor encoders and PWM valves. Power cycle controller
Section Control not working	Sections turn off, but will not go back on	If running an Ag Leader, verify target rate entered on both Ag Leader and Montag. If section box gray with red X, then touch button again to shut off manual section button. If section box red, then map or controller is turning section off. If in a already applied area, section will be red. Move to an area not applied yet. If a prescription is loaded, move within map area.
Mapping not working	Layers not set-up correctly	Contact monitor dealer for set-up instruction for 2 product application.